

AD-A087 464

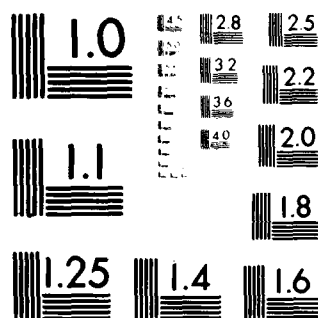
ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2  
19703A MLRS, MISSILE NUMBERS 32, 30, 29, ROUND NUMBER B-90, B-9--ETC(U)  
FEB 80

UNCLASSIFIED ERADCOM/ASL-DR-1133

NL

{ OF }  
AL  
2/19/80

END  
DATE  
FILMED  
9-80  
DTIC



MICROCOPY RESOLUTION TEST CHART  
NATIONAL BUREAU OF STANDARDS-1963-A

**LEVEL II**

APPROVED FOR PUBLIC RELEASE; DISTRIBUTION UNLIMITED

DR 1133  
FEBRUARY 1980

AD

12

HS

ADA087464

METEOROLOGICAL DATA REPORT

19703A MLRS  
Missile Numbers, 32, 30, 29  
Round Numbers, B-90, B-91, B-92  
13 February 1980

by

White Sands Meteorological Team

THIS DOCUMENT IS BEST QUALITY PRACTICABLE.  
THE COPY FURNISHED TO DDC CONTAINED A  
SIGNIFICANT NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.

ATMOSPHERIC SCIENCES LABORATORY  
WHITE SANDS MISSILE RANGE, NEW MEXICO

ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

DTIC  
ELECTE  
AUG 5 1980  
S D

80

8

4

261

**DISPOSITION INSTRUCTIONS**

Destroy this report when it is no longer  
needed. Do not release to the public.

**DISCLAIMER**

The findings in this report are not to be construed as an official Department of the Army position, unless so designated by other authorized documents.

The citation of trade names and names of manufacturers in this report is not to be construed as official Government indorsement or approval of commercial products or services referenced herein.

## **DISCLAIMER NOTICE**

**THIS DOCUMENT IS BEST QUALITY  
PRACTICABLE. THE COPY FURNISHED  
TO DTIC CONTAINED A SIGNIFICANT  
NUMBER OF PAGES WHICH DO NOT  
REPRODUCE LEGIBLY.**

UNCLASSIFIED

14 ERADCOM/ASL-DR-1133

SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
1. REPORT NUMBER DR 1133	2. GOVT ACCESSION NO. AD-A087464	3. RECIPIENT'S CATALOG NUMBER
4. TYPE (and Subtype) 19703A MLRS Missile Numbers 32, 30, 29, Round Number B-90, B-91, B-92, 13 February 1980.	5. TYPE OF REPORT & PERIOD COVERED 9 Meteorological data rept.	
6. AUTHOR(s)	7. PERFORMING ORG. REPORT NUMBER	
White Sands Meteorological Team	8. CONTRACT OR GRANT NUMBER(s) 16 BA Task 1F665702D127/02	
9. PERFORMING ORGANIZATION NAME AND ADDRESS 12 27	10. PROGRAM ELEMENT, PROJECT, TASK AREA & WORK UNIT NUMBERS 17 02	
11. CONTROLLING OFFICE NAME AND ADDRESS US Army Electronics Research & Development Cmd Atmospheric Sciences Laboratory White Sands Missile Range, NM 88002	12. REPORT DATE FEB 1980	13. NUMBER OF PAGES 26
14. MONITORING AGENCY NAME & ADDRESS (if different from Controlling Office) US Army Electronics Research & Development Cmd Adelphi, MD 20783	15. SECURITY CLASS. (of this report) UNCLASSIFIED 15a. DECLASSIFICATION/DOWNGRADING SCHEDULE	
16. DISTRIBUTION STATEMENT (of this Report) <div style="border: 1px solid black; padding: 5px; text-align: center;"><b>DISTRIBUTION STATEMENT A</b> Approved for public release; Distribution Unlimited</div>		
17. DISTRIBUTION STATEMENT (of the abstract entered in Block 20, if different from Report) Approved for public release; distribution unlimited.		
18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number)		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) Meteorological data gathered for the launching of the 19703A MLRS, Missile Numbers 32, 30, 29, Round Number, B-90, B-91 and B-92 are presented in tabular form. K		

CONTENTS	PAGE
INTRODUCTION-----	1
DISCUSSION-----	1
MAP-----	2
TABLES	
1. Surface Observation Taken at "C" Station-----	3
2. LC-39 Pilot Balloon Measured Wind Data at 0810 MST-----	4
3. LC-39 Pilot Balloon Measured Wind Data at 0910 MST-----	5
4. NICK Pilot Balloon Measured Wind Data at 0930 MST-----	6
5. LC-39 Pilot Balloon Measured Wind Data at 1020 MST-----	7
6. LC-37 Significant Level Data at 0800 MST-----	8
7. LC-37 Upper Air Data at 0800 MST-----	9
8. LC-37 Mandatory Levels at 0800 MST -----	12
9. WSD Significant Level Data at 0900 MST-----	13
10. WSD Upper Air Data at 0900 MST-----	14
11. WSD Mandatory Levels at 0900 MST-----	17
12. LC-37 Significant Level Data at 1000 MST-----	18
13. LC-37 Upper Air Data at 1000 MST-----	19
14. LC-37 Mandatory Levels at 1000 MST-----	22

Accession For	
NTIS GRA&I	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
DOC TAB	
Unannounced Justification	
By _____	
Distribution/	
Availability Codes	
Dist.	Avail and/or special
A	23 cl

## INTRODUCTION

19703A MLRS, Missile Numbers 32, 30, 29, Round Numbers B-90, B-91  
B-92, were launched from LC-39, White Sands Missile Range (WSMR),  
New Mexico, at 0817:52, 0918:01, 1023:01 MST, 13 February 1980.

## DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

### 1. Observations

#### a. Surface

(1) Standard surface observations to include pressure, temperature ( $^{\circ}\text{F}$ ), relative humidity, dew point ( $^{\circ}\text{F}$ ), wind direction and speed, and cloud cover were made at the "C" Station Met Site.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

#### b. Upper Air

(1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

#### SITE AND ALTITUDE

LC-39	2 Km
NICK	2 Km

(2) Air structure data (rawinsonde) were collected at the following Met Sites.

#### SITE AND TIME

LC-37	0800 MST
WSD	0900 MST
LC-37	1000 MST

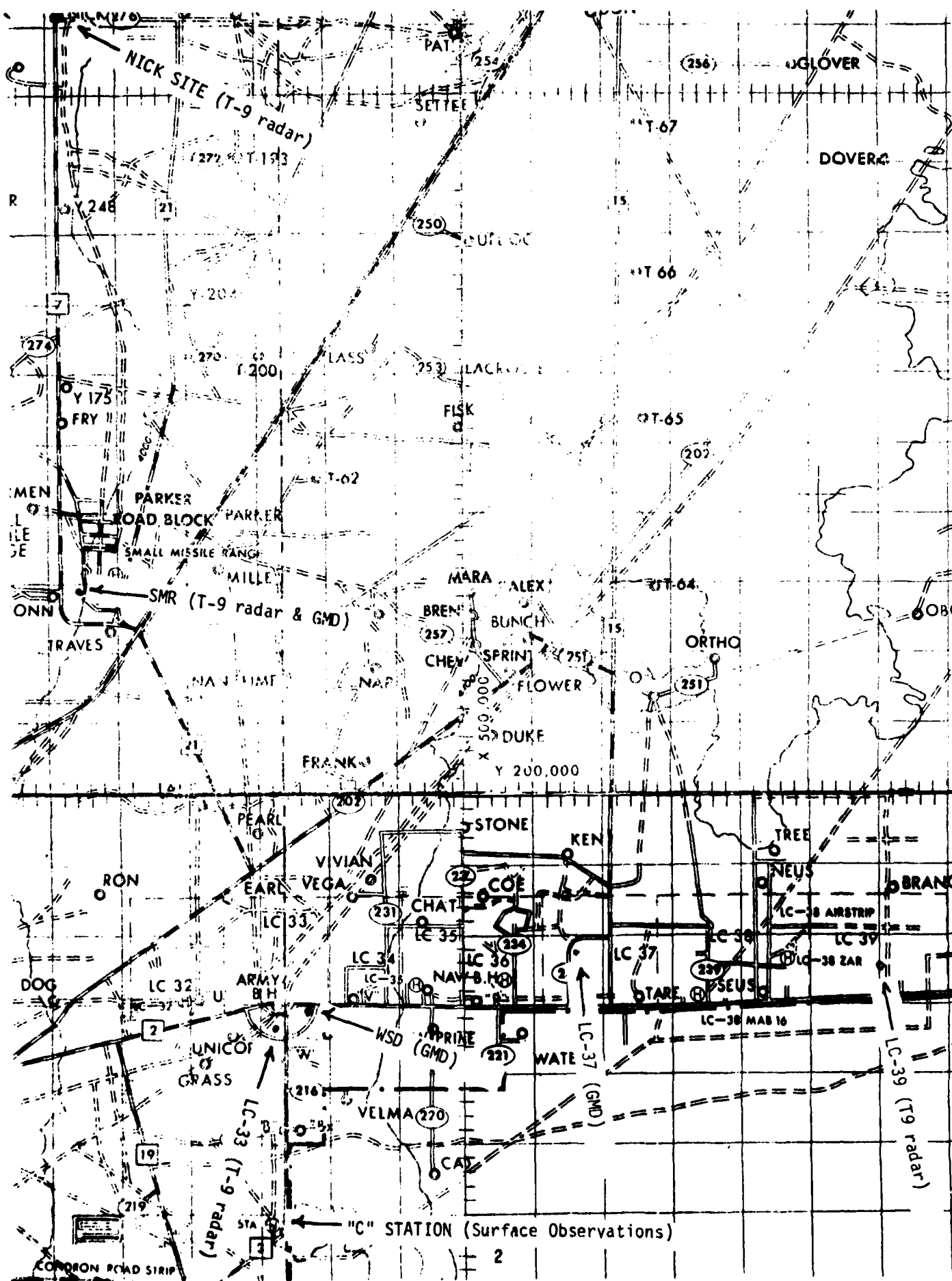


TABLE 1

SURFACE OBSERVATIONS OBTAINED FROM "C" STATION 01

13 February 1980

TIME MST	SKY CONDITIONS	WIND VELOCITY	WEATHER OMITTED TO VIEW	TEMP	DEW	REL	WIND SPEED
0058	120SCT250SCT	20		25.950	24	29	160 10
0158	120SCTE250BKN	20		25.950	32	27	E100 06
0258	120SCT250SCT	20		25.950	34	29	010 05
0358	120SCT250SCT	20		25.930	32	25	E130 07
0458	120SCT250SCT	20		25.940	30	26	E100 03
0558	120SCTE250BKN	20		25.940	31	25	010 03
0658	60SCT120SCTE250BKN	30		25.960	32	24	020 03
0758	E60BKN120BKN250BKN	50		25.990	34	30	340 03
0858	E60BKN120BKN	50		25.995	41	33	090 04
0958	60SCTE120BKN250BKN	50		26.005	49	34	340 03
1058	120SCT250SCT	50		25.990	55	37	360 05
1158	65SCT120SCT250SCT	50		25.960	60	38	150 04
1258	65SCT120SCTE250BKN	50		25.935	60	37	270 04
1358	65SCT120SCTE250BKN	50		25.900	65	38	210 08
1458	65SCTE120BKN250BKN	50		25.885	66	36	210 08
1558	65SCTE120BKN250BKN	50		25.880	65	37	210 08
1658	65SCTE120BKN250BKN	50		25.880	62	36	200 08
1758	E120BKN250BKN	30		25.890	57	38	150 07
1858	E120BKN250BKN	20		25.905	56	37	160 06
1958	E1200VC	20		25.920	55	42	340 04
2058	E1200VC	20	L-	25.935	53	44	110 05
2158	E1200VC	20	L-	25.935	51	44	E120 05
2258	E1200VC	20		25.925	53	43	E120 05
2358	E600VC	20	RW-	25.925	52	45	150 08

## PILOT BALLOON MEASURED WIND DATA

TABLE 2

RELEASED FROM LC-39 DATE 13 February 1980 TIME 0810 MST

TRACKER COORDINATES (WSTM) X= 530,938.82 Y= 186,564.96 II 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL.

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 3

RELEASED FROM LC-39

DATE 13 February 1980

TIME 0910 MST

## TRACKER

COORDINATES (WSTM)

**$\chi = 530,938.82$**

Y 186,564.96

4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 4

RELEASED FROM NICK DATE 13 February 1980 TIME 0930 MST

TRACKER COORDINATES (WSTM) X= 470,734.56 Y= 255,755.64 Z= 4126.57

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

## PILOT BALLOON MEASURED WIND DATA

TABLE 5

RELEASED FROM LC-39 DATE 13 February 1980 TIME 1020 MST

TRACKER      COORDINATES (WSIM)    Y: 530,938.82      X: 186,564.96      H: 4063.75

NOTE: WIND DIRECTIONS ARE REFERENCED TO TRUE NORTH

HEIGHTS ARE METERS AGL X OR FEET AGL .

[illegible][illegible][illegible]

STATION ALTITUDE 4047.27 FEET MSL  
15 FEB. 80  
ASCESSION NO. /

SIGNIFICANT LEVEL DATA  
0440130007  
LC-37

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LONG DEG

TABLE 6

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
877.8	4047.3	2.9	-1.8	71.0
864.8	4443.4	8.4	.9	59.0
850.0	4016.8	8.0	-1.0	50.0
797.4	6639.2	4.9	-2.2	60.0
744.2	8474.4	-2	-.6	96.0
700.0	10077.3	-3.5	-3.6	99.0
692.8	10340.3	-3.6	-3.7	99.0
673.2	11090.9	-4.7	-7.0	80.0
663.2	11477.5	-5.9	-7.3	90.0
644.0	12232.7	-7.4	-7.5	99.0
597.8	14130.3	-10.3	-10.4	99.0
588.8	14513.2	-12.4	-16.7	70.0
580.0	14790.9	-13.3	-26.4	32.0
571.0	15281.4	-14.6	-33.0	18.0
500.0	18562.7	-18.6	-34.3	23.0
488.2	19146.9	-19.9	-36.1	22.0
472.6	19935.7	-21.6	-30.1	46.0
435.4	21907.7	-25.8	-32.7	52.0
400.0	23912.2	-30.0	-39.9	37.0
323.4	28776.1	-41.6	-48.0	45.0
300.0	30431.1	-45.7		
257.2	33750.9	-54.3		
250.0	34349.2	-55.1		
237.4	35433.0	-55.9		
200.0	39053.4	-52.9		
188.8	40279.0	-52.7		
150.0	45130.7	-56.7		

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LON DEG

UPPER AIR DATA  
0440180007  
LC-37

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB. 60  
ASCENSION NO. /  
UBUN HWS MSL

TABLE 7

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	AIR TEMPERATURE DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION, DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
4047.3	877.8	2.9	71.0	1105.2	648.0	0.0	0.0	1.000273
4500.0	863.2	8.4	58.0	1065.2	654.6	256.0	1.2	1.000268
5000.0	847.4	7.9	50.5	1048.0	653.8	256.0	2.5	1.000259
5500.0	831.8	7.0	53.4	1032.0	652.8	256.0	3.9	1.000256
6000.0	816.3	6.1	56.3	1016.3	651.8	256.0	5.2	1.000252
6500.0	801.3	5.2	59.2	1000.8	650.7	254.2	5.9	1.000249
7000.0	786.6	3.9	67.1	986.6	649.3	252.6	6.6	1.000247
7500.0	772.0	2.5	76.9	972.9	647.7	256.8	9.5	1.000245
8000.0	757.0	1.1	86.7	959.5	646.1	258.9	12.5	1.000243
8500.0	743.3	-0.3	96.0	946.3	644.5	250.4	16.0	1.000240
9000.0	729.4	-1.3	97.0	932.0	643.3	257.7	19.7	1.000235
9500.0	715.6	-2.3	97.9	918.0	642.0	257.6	22.2	1.000231
10000.0	702.1	-3.3	98.9	904.2	640.7	257.7	24.3	1.000228
10500.0	688.7	-3.8	95.1	890.7	640.1	258.1	24.9	1.000221
11000.0	675.6	-4.6	82.3	874.5	639.1	258.4	25.2	1.000214
11500.0	662.6	-5.9	90.3	862.1	637.5	256.6	25.4	1.000211
12000.0	649.9	-6.9	96.2	849.7	636.3	254.8	25.6	1.000208
12500.0	637.3	-7.8	99.0	835.0	635.2	254.2	26.6	1.000204
13000.0	624.9	-8.6	99.0	821.2	634.3	253.7	27.7	1.000200
13500.0	612.8	-9.3	99.0	807.7	633.3	257.8	27.1	1.000196
14000.0	600.9	-10.1	99.0	794.3	632.4	262.1	26.0	1.000192
14500.0	589.1	-12.3	71.0	786.0	629.5	267.2	26.3	1.000184
15000.0	577.3	-13.7	28.1	775.0	627.7	273.4	26.1	1.000176
15500.0	566.0	-14.9	18.3	763.2	626.2	276.6	26.2	1.000172
16000.0	554.6	-15.5	19.1	749.7	625.4	274.4	26.3	1.000169
16500.0	543.3	-16.1	19.9	736.4	624.7	271.2	26.5	1.000166
17000.0	532.6	-16.7	20.6	723.4	624.0	268.5	26.9	1.000163
17500.0	522.0	-17.3	21.4	710.6	623.2	262.1	27.5	1.000160
18000.0	511.3	-17.9	22.1	698.0	622.5	258.2	28.2	1.000157
18500.0	501.3	-18.5	22.9	685.6	621.7	254.5	28.8	1.000155
19000.0	491.1	-19.6	22.3	674.6	620.4	250.6	28.9	1.000152
19500.0	481.2	-20.7	32.7	663.7	619.1	247.0	29.3	1.000150
20000.0	471.4	-21.7	46.2	652.9	617.8	244.7	30.2	1.000148
20500.0	461.7	-22.8	47.7	642.2	616.5	243.0	31.3	1.000146
21000.0	452.2	-23.9	49.2	631.6	615.2	243.8	33.3	1.000143
21500.0	442.8	-24.9	50.8	621.3	613.9	244.6	35.3	1.000141
22000.0	433.7	-26.0	51.3	611.1	612.6	247.5	35.8	1.000138
22500.0	424.0	-27.0	47.6	600.9	611.3	250.4	36.4	1.000136
23000.0	415.7	-28.1	43.8	590.8	609.9	251.3	34.2	1.000133
23500.0	407.0	-29.1	40.1	581.0	608.6	252.3	32.0	1.000131

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB. 60  
ASCENSION NO. /

0800 HRS MSI

UPPER AIR DATA  
0440100007  
LC-37

GEODETTIC COORDINATES  
32.41141 LAT DEG  
106.30452 LON DEG

TABLE 7 (CONT)

GEODETIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE		REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND KNOTS	WIND DATA		INDEX OF REFRACTION
		AIR DEGREES	WET-POINT CENTIGRADE				DIRECTION DEGREES (TN)	SPEED KNOTS	
24000.0	398.5	-30.2	-40.1	37.1	571.3	607.3	250.3	31.3	1.000128
24500.0	389.9	-31.4	-41.0	38.0	561.7	605.8	248.3	30.6	1.000126
25000.0	381.4	-32.6	-41.0	38.8	552.3	604.3	246.0	32.0	1.000124
25500.0	373.2	-33.8	-42.7	39.6	543.0	602.8	245.1	33.4	1.000122
26000.0	365.1	-35.0	-43.6	40.4	534.0	601.3	244.6	34.1	1.000120
26500.0	357.2	-36.2	-44.5	41.3	525.1	599.8	244.0	34.8	1.000118
27000.0	349.5	-37.4	-45.5	42.1	516.3	598.2	244.3	35.5	1.000116
27500.0	341.9	-38.6	-46.4	42.9	507.7	596.7	244.0	36.2	1.000114
28000.0	334.6	-39.7	-47.3	43.7	499.3	595.2	243.3	36.3	1.000112
28500.0	327.3	-40.9	-48.3	44.5	491.0	593.7	242.4	35.9	1.000110
29000.0	320.1	-42.2	-50.5	38.9**	482.8	592.1	241.2	34.8	1.000108
29500.0	313.0	-43.4	-55.2	25.4**	474.5	590.5	239.7	32.6	1.000106
30000.0	306.0	-44.6	-62.2	11.9**	466.4	588.9	237.8	30.5	1.000104
30500.0	299.1	-45.9			458.5	587.3	234.0	29.8	1.000102
31000.0	292.3	-47.2			450.5	585.7	231.3	29.2	1.000100
31500.0	285.6	-48.5			442.7	584.0	227.9	30.3	1.000099
32000.0	279.0	-49.8			435.1	582.3	224.6	31.7	1.000097
32500.0	272.6	-51.1			427.6	580.6	223.2	32.4	1.000095
33000.0	266.3	-52.4			420.2	578.9	222.1	32.9	1.000094
33500.0	260.2	-53.6			413.0	577.2	223.3	32.8	1.000092
34000.0	254.2	-54.6			405.2	575.9	220.9	32.1	1.000090
34500.0	248.2	-55.2			396.8	575.1	231.2	32.2	1.000088
35000.0	242.4	-55.6			383.1	574.0	237.0	34.4	1.000086
35500.0	236.7	-55.8			379.4	574.3	241.9	36.9	1.000085
36000.0	231.1	-55.4			369.6	574.8	244.6	41.2	1.000082
36500.0	225.7	-55.0			360.5	575.4	246.7	45.9	1.000080
37000.0	220.4	-54.6			351.4	575.9	248.5	50.7	1.000078
37500.0	215.3	-54.2			342.5	576.5	250.3	55.7	1.000076
38000.0	210.2	-53.8			333.8	577.0	251.9	60.7	1.000074
38500.0	205.3	-53.4			325.4	577.6	253.3	64.2	1.000072
39000.0	200.5	-52.9			317.2	578.1	254.7	66.9	1.000071
39500.0	195.8	-52.8			309.7	578.3	255.9	69.6	1.000069
40000.0	191.3	-52.7			302.4	578.4	256.7	70.6	1.000067
40500.0	186.8	-52.9			295.5	578.2	257.6	71.6	1.000066
41000.0	182.5	-53.3			289.1	577.6	258.2	73.0	1.000064
41500.0	178.2	-53.7			282.9	577.1	258.0	75.6	1.000063
42000.0	174.0	-54.1			276.8	576.6	257.9	78.2	1.000062
42500.0	169.9	-54.5			270.6	576.0	257.5	80.1	1.000060
43000.0	165.9	-54.9			264.9	575.5	257.0	81.6	1.000059
43500.0	162.1	-55.4			259.2	574.9			1.000058

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL	UPPER AIR DATA	GEODETIC COORDINATES
15 FEB. 80	0440180007	32.41141 LAT DEG
ASCENSION NO. /	LC-37	106.30852 LONG DEG

TABLE 7 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	WIND DATA		INDEX OF REFRACTION
					SPEED OF SOUND KNOTS	DIRECTION DEGREES (TH)	
44000.0	158.3	-55.8		253.6	574.4		1.000056
44500.0	154.6	-56.2		248.1	573.8		1.000055
45000.0	150.9	-56.6		242.8	573.3		1.000054

STATION ALTITUDE 4047.27 FEET MSL  
19 FEB. 80  
ASCENSION NO. /

MANDATORY LEVELS  
0440100007  
LC-37

GEOGRAPHIC COORDINATES  
32.41141 LAT NEG  
106.50852 LONG NEG

TABLE 8

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUM.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES CENTIGRADE	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4913.	8.0	-1.8	50.	256.0	2.3	
800.0	6547.	5.1	-2.2	59.	254.1	6.0	
750.0	8262.	.4	-.8	92.	258.8	14.3	
700.0	10067.	-3.5	-3.6	99.	257.8	24.6	
650.0	11982.	-6.9	-7.4	90.	254.8	25.6	
600.0	14021.	-10.2	-10.3	99.	262.3	26.6	
550.0	16192.	-15.7	-33.6	19.	273.5	26.4	
500.0	18537.	-18.6	-34.5	23.	254.1	24.8	
450.0	21087.	-24.1	-31.6	50.	243.9	33.8	
400.0	23873.	-30.0	-39.9	37.	250.7	31.4	
350.0	26947.	-37.3	-45.4	42.	244.3	35.5	
300.0	30379.	-45.7			235.1	29.9	
250.0	34276.	-55.1			229.3	31.7	
200.0	38961.	-52.9			254.7	67.1	
175.0	41785.	-54.0			258.0	77.5	
150.0	45011.	-56.7					

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 3989.00 FEET MSL  
15 FEB. 80  
ASCENSION NO. 74

SIGNIFICANT LEVEL DATA  
0440020074  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LONG DEG

TABLE 9

PRESSURE	GEOMETRIC ALTITUDE	TEMPERATURE	REL. HUM.
MILLIBARS	MSL FEET	AIR DEWPOINT DEGREES CENTIGRADE	PERCENT
880.3	3989.0	6.3	89.0
871.7	4252.4	3.9	87.0
858.5	4664.0	9.2	53.0
850.0	4934.7	8.7	53.0
808.8	6281.2	6.8	87.0
750.6	8277.8	.9	99.0
700.0	10113.1	-2.3	99.0
658.0	11723.1	-4.6	78.0
605.0	13873.3	-10.7	99.0
600.7	14054.7	-8.0	70.0
587.8	14609.5	-8.0	34.0
512.4	18058.8	-16.8	47.0
500.0	18662.3	-18.2	55.0
473.0	20018.3	-21.2	46.0
450.2	21210.6	-24.3	76.0
435.2	22021.7	-25.4	74.0
420.4	22840.3	-26.4	50.0
400.0	24024.3	-28.5	47.0
344.6	27474.3	-37.7	50.0
312.6	29661.0	-43.2	50.0
300.0	30564.9	-45.4	48.0
276.6	32336.1	-49.6	
250.0	34501.2	-52.7	
226.8	36561.7	-55.0	
216.6	37531.9	-54.3	
200.0	39232.0	-50.1	
187.8	40586.6	-50.2	
165.6	43279.0	-52.7	
150.0	45370.2	-55.8	
137.4	47204.7	-57.5	
126.2	48961.4	-61.0	

STATION ALTITUDE 3989.00 FEET MSL  
15 FEB. 48  
ADDITION NO. 74

UPPER AIR DATA  
0440020074  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT N  
106.37033 LONG W

TABLE 10

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METEN	SPEED OF SOUND M/SEC	WIND DATA DIRECTION DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
3989.0	880.3	6.3	69.0	1094.3	652.2	00	0.0	1.000276
4000.0	879.9	6.2	69.9	1094.3	652.0	238.3	0.0	1.000276
4500.0	863.7	7.1	58.6	1070.9	653.0	238.3	0.7	1.000267
5000.0	848.0	8.6	53.7	1045.6	654.8	238.3	1.4	1.000262
5500.0	832.5	7.9	58.9	1028.9	654.0	238.3	2.1	1.000259
6000.0	817.2	7.2	64.1	1012.5	653.3	248.0	3.7	1.000257
6500.0	802.2	6.2	70.5	997.4	652.1	259.8	7.8	1.000255
7000.0	787.3	4.7	78.5	984.1	650.4	262.0	11.3	1.000252
7500.0	772.6	3.2	86.5	971.0	648.7	263.0	13.9	1.000249
8000.0	758.4	1.7	94.5	958.1	646.9	261.9	17.1	1.000246
8500.0	744.3	0.5	99.0	944.4	645.5	260.2	21.0	1.000242
9000.0	730.3	-0.4	99.0	929.7	644.4	259.3	24.4	1.000237
9500.0	716.3	-1.2	99.0	915.3	643.4	259.1	27.3	1.000232
10000.0	703.0	-2.1	99.0	901.0	642.3	259.9	28.5	1.000227
10500.0	689.7	-2.9	94.0	886.6	641.3	259.9	26.7	1.000216
11000.0	676.3	-3.6	87.4	872.2	640.4	261.0	24.5	1.000210
11500.0	663.7	-4.3	80.9	859.1	639.5	261.1	21.7	1.000206
12000.0	650.9	-5.4	80.7	845.2	638.1	259.7	19.9	1.000202
12500.0	638.3	-6.8	85.6	833.4	636.4	260.5	18.8	1.000199
13000.0	626.0	-8.2	90.5	821.7	634.7	262.2	20.3	1.000196
13500.0	613.9	-9.6	95.4	810.2	632.9	263.6	22.9	1.000190
14000.0	602.0	-8.8	78.7	792.1	633.9	265.3	25.4	1.000180
14500.0	590.3	-8.0	41.1	774.9	634.0	266.5	25.7	1.000176
15000.0	578.7	-9.0	35.5	762.7	633.4	267.4		1.000173
15500.0	567.3	-10.3	37.4	751.3	631.9			1.000170
16000.0	556.2	-11.5	39.2	740.1	630.3			1.000168
16500.0	545.2	-12.8	41.1	729.1	628.8			1.000165
17000.0	534.3	-14.1	43.0	718.3	627.2			1.000162
17500.0	523.9	-15.4	44.9	707.6	625.7			1.000160
18000.0	513.6	-16.7	46.8	697.1	624.1			1.000157
18500.0	503.3	-17.8	52.8	686.3	622.7			1.000155
19000.0	493.1	-18.9	52.8	675.4	621.3			1.000152
19500.0	483.1	-20.1	49.4	664.7	619.9			1.000149
20000.0	473.4	-21.2	46.1	654.1	618.6			1.000147
20500.0	463.7	-22.5	58.1	644.0	617.0			1.000145
21000.0	454.1	-23.8	70.7	634.0	615.4			1.000143
21500.0	444.8	-24.7	75.3	623.3	614.2			1.000140
22000.0	435.0	-25.4	74.1	612.1	613.4			1.000137
22500.0	425.0	-26.0	60.1	601.1	612.4			
23000.0	415.7	-27.7						

UPPER AIR DATA  
0440020074  
WHITE SANDS

STATION ALTITUDE 3989.00 FEET MSL  
15 FEB. 80  
ASCENSION NO. 74

GEODETIC COORDINATES  
32.40043 LAT (N)  
106.37033 LONG (W)

TABLE 10 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT DEGREES	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED SOUND KNOTS	WIND DIRECTION DEGREES (T)	SPEED KNOTS	INDEX OF REFRACTION
23500.0	409.0	-27.6	-35.1	48.3	579.9	610.6	253.9	33.1	1.000131
24000.0	400.4	-28.5	-36.2	47.1	569.9	609.5	255.7	33.8	1.000119
24500.0	391.9	-29.8	-37.3	47.4	560.8	607.8	255.1	34.6	1.000120
25000.0	383.5	-31.1	-38.5	47.8	551.8	606.2	254.2	35.6	1.000124
25500.0	375.5	-32.4	-39.8	48.3	543.0	604.5	253.0	36.9	1.000122
26000.0	367.5	-33.8	-40.8	48.7	534.4	602.8	251.3	37.8	1.000110
26500.0	359.4	-35.1	-41.9	49.2	525.9	601.1	249.3	38.4	1.000118
27000.0	351.7	-36.4	-43.1	49.6	517.6	599.4			1.000116
27500.0	344.2	-37.8	-44.3	50.0	509.4	597.7			1.000114
28000.0	336.6	-39.0	-45.5	49.5	500.8	596.1			1.000112
28500.0	329.2	-40.3	-46.8	49.1	492.4	594.5			1.000110
29000.0	321.9	-41.5	-48.1	48.6	484.2	592.9			1.000108
29500.0	314.9	-42.8	-49.3	48.1	476.1	591.3			1.000107
30000.0	307.8	-44.0	-50.4	30.1**	468.0	589.7			1.000105
30500.0	300.9	-45.2	-71.0	3.6**	460.0	588.1			1.000102
31000.0	294.1	-46.4			451.9	586.6			1.000101
31500.0	287.4	-47.6			444.0	585.1			1.000099
32000.0	280.9	-48.8			436.2	583.5			1.000097
32500.0	274.5	-49.8			428.2	582.2			1.000095
33000.0	268.2	-50.6			419.7	581.2	244.7	30.5	1.000093
33500.0	262.0	-51.3			411.3	580.3	247.9	29.8	1.000092
34000.0	255.9	-52.0			403.1	579.4	250.7	29.7	1.000090
34500.0	250.0	-52.7			395.1	578.4	250.7	32.2	1.000088
35000.0	244.2	-53.3			386.8	577.7	250.7	34.8	1.000086
35500.0	238.5	-53.8			378.6	577.0	250.8	36.2	1.000084
36000.0	232.9	-54.4			370.9	576.2	250.8	37.5	1.000083
36500.0	227.5	-54.9			363.1	575.5	252.4	41.6	1.000081
37000.0	222.1	-54.7			354.2	575.8	254.0	46.1	1.000079
37500.0	216.9	-54.3			345.3	575.3	253.4	55.9	1.000077
38000.0	211.9	-53.1			335.5	574.6	252.8	66.3	1.000075
38500.0	207.0	-51.9			325.9	579.5	252.1	67.5	1.000073
39000.0	202.2	-50.7			316.6	581.1	251.3	68.3	1.000071
39500.0	197.5	-50.1			308.5	581.8	249.8	69.9	1.000069
40000.0	193.0	-50.2			301.5	581.8	249.0	71.2	1.000067
40500.0	188.6	-50.2			294.6	581.7	251.3	70.4	1.000066
41000.0	184.2	-50.6			286.3	581.2			1.000064
41500.0	180.0	-51.0			282.3	580.6			1.000063
42000.0	175.8	-51.5			276.3	580.0			1.000062
42500.0	171.7	-52.0			270.5	579.4			1.000060
43000.0	167.8	-52.4			264.8	578.8			1.000059

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL  
13 FEB. 60 0900 HRS MSL  
ASCENSION NO. 74

UPPER AIR DATA  
0443020074  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT LEG  
106.37033 LONG LEG

TABLE 10 (CONT)

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup> METER	SPEED OF SOUND		WIND DATA DIRECTION, DEGREES (TN)	SPEED KNOTS	INDEX OF REFRACTION
					ANGLES	ANGLES			
43500.0	163.9	-53.0		259.4	576.0				1.000054
44000.0	160.0	-53.8		254.1	577.0				1.000057
44500.0	156.3	-54.5		249.0	576.1				1.000055
45000.0	152.7	-55.3		244.0	575.1				1.000054
45500.0	149.1	-55.9		239.1	574.2				1.000053
46000.0	145.5	-56.4		233.9	573.6				1.000052
46500.0	142.1	-56.8		228.9	573.0				1.000051
47000.0	138.8	-57.3		223.4	572.3				1.000050
47500.0	135.4	-58.1		219.4	571.3				1.000049
48000.0	132.2	-59.1		215.2	570.0				1.000048
48500.0	129.1	-60.1		211.0	568.7				1.000047

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 3989.00 FEET MSL  
13 FEB. 60  
ASCENSION NO. 74

MANDATORY LEVELS  
0440020074  
WHITE SANDS

GEODETIC COORDINATES  
32.40043 LAT DEG  
106.37033 LONG DEG

TABLE 11

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEW POINT DEGREES	PERCENT		DIRECTION DEGREES (IN)	SPEED KNOTS
850.0	4931.	8.7	-0.3	53.		230.5	1.3
800.0	6571.	5.9	1.2	72.		260.0	6.4
750.0	8292.	.9	.7	99.		260.0	19.4
700.0	10103.	-2.3	-2.4	99.		259.5	20.5
650.0	12026.	-5.5	-8.2	61.		259.0	21.5
600.0	14068.	-8.0	-12.0	26.		265.5	23.4
550.0	16273.	-12.3	-23.0	40.		9999.0XX	9999.0XX
500.0	18636.	-18.2	-25.0	55.		9999.0	9999.0XX
450.0	21199.	-24.3	-27.3	70.		9999.0	9999.0XX
400.0	23995.	-28.5	-36.2	47.		255.7	33.8
350.0	27072.	-36.7	-43.4	50.		9999.0	9999.0XX
300.0	30509.	-45.4				9999.0	9999.0XX
250.0	34427.	-52.7				250.7	32.2
200.0	39139.	-50.1				250.7	60.9
175.0	41905.	-51.6				9999.0	9999.0XX
150.0	45249.	-55.8				9999.0	9999.0XX

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

XX WIND DATA INVALID DUE TO MISSING RAW AZIMUTH AND ELEVATION ANGLES.

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB. 80  
ASCENSION NO. 8

SIGNIFICANT LEVEL DATA  
0440130008  
LC-37

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LONG DEG

TABLE 12

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE		REL. HUM. PERCENT
		AIR DEGREES	DEWPOINT CENTIGRADE	
878.2	4047.3	8.3	-4	54.0
856.2	4733.0	6.1	-3.5	50.0
850.0	4929.1	7.4	-2.3	50.0
835.8	5384.6	7.2	-2.5	50.0
755.8	8080.6	2.1	-0.6	81.0
727.2	9100.8	-0.3	-1.0	91.0
717.6	9450.4	-0.7	-2.3	89.0
700.0	10102.8	-1.0	-5.0	70.0
671.2	11193.3	-4.0	-0.3	72.0
623.6	13087.8	-9.8	-10.7	93.0
617.4	13341.4	-10.1	-14.3	71.0
608.8	13694.9	-7.2	-21.0	32.0
600.0	14072.0	-7.1	-22.5	28.0
500.0	18645.6	-18.5	-20.5	49.0
477.2	19785.0	-21.2	-25.0	71.0
462.0	20568.2	-23.1	-26.1	76.0
439.4	21772.5	-25.0	-30.1	62.0
432.2	22167.5	-25.2	-32.1	52.0
400.0	24001.5	-29.6	-36.5	51.0
310.6	29760.7	-44.4	-50.7	
300.0	30523.4	-46.3		
269.6	32834.6	-51.4		
250.0	34443.2	-53.0		
237.0	35572.6	-54.8		
207.0	38433.2	-53.4		
200.0	39166.7	-51.0		
184.2	40932.8	-50.6		
150.0	45284.3	-56.4		

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB. 60  
ASCENSION NO. 8

UPPER AIR DATA  
0440100006  
LC-37

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LONG DEG

TABLE 13

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CELSIUS	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (TN) DEGREES	SPEED KNOTS	INDEX OF REFRACTION
4047.3	678.2	8.3	54.0	1094.2	654.4	0.0	0.0	1.000270
4500.0	663.6	6.8	51.4	1072.1	652.6	236.2	.4	1.000263
5000.0	647.8	7.4	50.0	1050.4	653.2	236.2	.9	1.000259
5500.0	632.2	7.0	51.3	1022.5	652.8	236.2	1.4	1.000255
6000.0	616.8	6.0	57.1	1016.7	651.7	240.5	2.3	1.000253
6500.0	601.7	5.1	62.8	1001.2	650.7	252.1	6.5	1.000250
7000.0	586.9	4.1	68.6	985.9	649.6	253.0	10.8	1.000247
7500.0	572.4	3.2	74.3	970.9	648.5	253.5	15.2	1.000245
8000.0	558.1	2.3	80.1	955.2	647.4	254.4	17.8	1.000242
8500.0	543.9	1.1	85.1	942.2	646.1	255.3	20.1	1.000238
9000.0	530.0	-0.1	90.0	928.6	644.7	256.4	22.6	1.000235
9500.0	516.2	-0.7	87.6	913.4	643.9	257.1	24.3	1.000229
10000.0	502.7	-1.0	73.0	897.4	643.5	257.4	25.5	1.000221
10500.0	489.4	-2.1	70.7	884.2	642.1	257.7	24.8	1.000216
11000.0	476.3	-3.5	71.6	872.0	640.4	258.0	23.8	1.000212
11500.0	463.4	-4.9	75.3	860.0	638.6	257.9	22.6	1.000208
12000.0	450.6	-6.5	80.9	848.3	636.8	257.0	21.3	1.000205
12500.0	438.0	-8.0	86.5	836.8	634.9	258.0	21.8	1.000202
13000.0	425.7	-9.5	92.0	825.5	633.1	258.6	23.0	1.000199
13500.0	413.6	-8.8	53.7	807.8	633.7	258.6	24.2	1.000189
14000.0	401.7	-7.1	28.8	787.4	635.0	258.5	25.5	1.000181
14500.0	389.9	-8.2	30.0	775.0	634.4	257.8	25.7	1.000178
15000.0	378.2	-9.4	32.3	763.3	632.9	257.1	25.6	1.000175
15500.0	366.8	-10.7	34.6	751.8	631.4	256.5	26.2	1.000173
16000.0	355.6	-11.9	36.9	740.4	629.9	255.9	26.6	1.000170
16500.0	344.6	-13.2	39.1	729.3	628.4	255.3	26.4	1.000167
17000.0	333.9	-14.4	41.4	718.4	626.8	254.6	26.4	1.000165
17500.0	323.4	-15.6	43.7	707.6	625.3	253.7	26.6	1.000162
18000.0	313.0	-16.9	46.0	697.1	623.8	251.2	27.2	1.000160
18500.0	302.9	-18.1	48.3	686.6	622.3	247.6	28.3	1.000157
19000.0	292.8	-19.3	55.8	676.0	620.8	245.5	29.9	1.000155
19500.0	282.8	-20.5	65.3	665.4	619.4	244.1	31.7	1.000153
20000.0	273.0	-21.7	72.4	654.9	617.9	244.0	33.3	1.000151
20500.0	263.3	-22.9	75.6	644.7	616.4	243.7	34.8	1.000148
21000.0	253.8	-23.8	71.0	633.6	615.4	243.0	34.9	1.000145
21500.0	244.4	-24.6	65.2	622.5	614.4	243.6	35.0	1.000142
22000.0	235.2	-25.1	56.2	611.1	613.7	243.5	35.2	1.000139
22500.0	226.0	-26.0	51.8	600.5	612.6	243.5	35.7	1.000136
23000.0	217.3	-27.2	51.5	590.8	611.1	243.6	36.7	1.000134
23500.0	208.6	-28.4	51.3	581.4	609.6	243.6	37.3	1.000131

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB 60 1000 HRS MSL  
ASCENSION NO. 8

UPPER AIR DATA  
0440100000  
LC-37

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LONG DEG

TABLE 13 (CONT)

GEOM. INIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES (TN))	SPEED KNOTS	INDEX OF REFRACTION
24000.0	400.0	-29.6	51.0	5/2.0	608.1	240.2	37.6	1.000129
24500.0	391.5	-30.9	50.8	562.6	606.4	249.0	38.1	1.000127
25000.0	382.8	-32.2	50.7	553.3	604.8	249.5	38.6	1.000125
25500.0	374.5	-33.5	50.5	544.2	603.2	248.5	38.2	1.000122
26000.0	366.4	-34.7	50.3	535.3	601.6	247.5	37.8	1.000120
26500.0	358.4	-36.0	50.1	526.5	600.0	246.7	37.3	1.000118
27000.0	350.6	-37.3	50.0	517.9	598.3	246.0	36.9	1.000116
27500.0	343.0	-38.6	49.8	509.4	596.7	245.8	37.2	1.000114
28000.0	335.6	-39.9	49.6	501.1	595.0	245.2	37.4	1.000112
28500.0	328.3	-41.2	49.4	492.9	593.4	243.9	37.5	1.000110
29000.0	321.2	-42.4	49.3	484.9	591.8	242.7	37.6	1.000108
29500.0	314.2	-43.7	49.1	477.0	590.1	241.9	37.9	1.000107
30000.0	307.2	-45.0	49.1	469.1	588.5	241.3	37.7	1.000105
30500.0	300.3	-46.2	49.1	461.1	586.8	241.2	36.7	1.000103
31000.0	293.5	-47.4	49.1	452.8	585.4	240.9	36.1	1.000101
31500.0	286.8	-48.5	49.1	444.6	584.0	240.4	35.8	1.000099
32000.0	280.2	-49.6	49.1	436.6	582.5	239.4	35.4	1.000097
32500.0	273.8	-50.7	49.1	428.7	581.1	238.2	34.9	1.000095
33000.0	267.5	-51.6	49.1	420.0	579.9	239.4	33.8	1.000094
33500.0	261.3	-52.1	49.1	411.7	579.3	241.6	32.4	1.000092
34000.0	255.3	-52.6	49.1	403.1	578.6	245.0	33.9	1.000090
34500.0	249.3	-53.1	49.1	394.7	577.9	249.4	35.8	1.000088
35000.0	243.5	-53.9	49.1	386.9	576.9	249.1	39.2	1.000086
35500.0	237.8	-54.7	49.1	379.2	575.8	248.4	42.8	1.000084
36000.0	232.3	-54.6	49.1	370.2	575.9	247.9	46.4	1.000082
36500.0	226.8	-54.3	49.1	361.1	576.3	247.5	50.1	1.000080
37000.0	221.5	-54.1	49.1	352.3	576.0	249.6	54.7	1.000078
37500.0	216.3	-53.9	49.1	343.7	576.9	251.4	59.1	1.000077
38000.0	211.3	-53.6	49.1	335.3	577.2	252.1	62.7	1.000075
38500.0	206.4	-53.2	49.1	326.8	577.8	252.1	66.5	1.000073
39000.0	201.6	-51.5	49.1	316.9	579.9	251.5	70.6	1.000071
39500.0	196.9	-50.9	49.1	308.7	580.8	251.5	74.1	1.000069
40000.0	192.4	-50.8	49.1	301.4	580.9	251.8	77.3	1.000067
40500.0	188.0	-50.7	49.1	294.3	581.0	252.2	78.8	1.000066
41000.0	183.6	-50.7	49.1	287.5	581.1	252.5	79.6	1.000064
41500.0	179.3	-51.4	49.1	281.7	580.2	252.9	79.5	1.000063
42000.0	175.2	-52.0	49.1	275.9	579.3	253.3	79.2	1.000061
42500.0	171.1	-52.7	49.1	270.3	578.4	253.6	78.4	1.000060
43000.0	167.1	-53.4	49.1	264.8	577.6	253.9	77.8	1.000059
43500.0	163.2	-54.0	49.1	259.4	576.7	253.0	78.9	1.000058

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

STATION ALTITUDE 4047.27 FEET MSL

13 FEB. 80

ASCENSION NO. 8

UPPER AIR DATA

0440130000

LC-37

GEODETIC COORDINATES

32.41141 LAT DEG

106.30852 LONG DEG

TABLE 13 (CONT)

GEOLIMIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CM <sup>3</sup>	SPEED OF SOUND METERS	WIND DATA		INDEX OF REFRACTION
						DIRECTION DEGREES (T)	SPEED KNOTS	
4400.0	159.4	-54.7		254.2	575.8			1.000057
4450.0	155.7	-55.4		249.0	574.9			1.000055
4500.0	152.1	-56.0		243.9	574.1			1.000054

STATION ALTITUDE 4047.27 FEET MSL  
13 FEB. 60 1000 HRS MST  
ASCENSION NO. 8

MANDATORY LEVELS  
0440180000  
LC-37

GEODETIC COORDINATES  
32.41141 LAT DEG  
106.30852 LONG DEG

TABLE 14

PRESSURE GEOPOTENTIAL		TEMPERATURE		REL. HUMID.		WIND DATA	
MILLIBARS	FEET	AIR DEGREES	DEWPOINT DEGREES	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS	
850.0	4925.	7.4	-2.3	50.	230.2	.9	
800.0	6558.	5.0	-1.4	63.	252.5	7.0	
750.0	8278.	1.6	-.9	63.	254.9	19.1	
700.0	10093.	-1.0	-5.8	70.	257.5	25.7	
650.0	12016.	-6.5	-9.2	81.	257.6	21.2	
600.0	14056.	-7.1	-22.5	28.	250.5	25.7	
550.0	16259.	-12.5	-23.9	38.	255.6	20.5	
500.0	18620.	-18.5	-26.5	49.	246.7	28.6	
450.0	21169.	-24.1	-28.2	69.	245.9	34.9	
400.0	23962.	-29.6	-36.5	51.	248.2	37.6	
350.0	27038.	-37.4	-44.0	50.	246.0	36.9	
300.0	30464.	-46.3			241.2	30.7	
250.0	34369.	-53.0			248.9	35.5	
200.0	39074.	-51.0			251.4	71.8	
175.0	41925.	-52.0			253.3	79.2	
150.0	45168.	-56.4					

\*\* AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.